

SELECTION GUIDE

Industrial Thermoregulation products and accessories for electrical panels

7T Series - Thermo-Hygrostats and Thermostats

7F Series - Filter Fans

7H Series - Panel Heaters

7L Series - LED panel lights

7U Series - Modular power outlets

9D Series - High Current Terminal Blocks



ABOUT US



Finder was founded in Italy in 1954. Since then it has been designing and manufacturing a wide range of electromechanical and electronic components for both the residential and industrial sectors.

Today, thanks to its global vision, Finder now distributes its products around the world through a network of 29 company-owned subsidiaries and more than 80 trade partnerships.

Finder is an international family made up of more than 1300 individuals, all united by the same values and passion for our products.

14,500 different products to satisfy a myriad of applications. From products at the heart of automation to the control of machines, power, time, temperature, liquid level and light



CE CA











OUR PRODUCTS

FINDER IS AN ITALIAN BRAND WITH A WORLDWIDE PRESENCE





80 OFFICIAL DISTRIBUTORS



ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG)

Finder considers social and environmental sustainability as fundamental principles of doing business, just as it believes that business growth must develop in synergy with a conscious vision of the future.

That is why Finder is committed to reducing and eliminating CO2 emissions, focusing on circularity, caring for its employees to foster a safe, fair and inclusive work environment, spreading a culture of integrity and transparency, and collaborating with stakeholders who share its values.

AUTONOMY AND INDEPENDENCE

Finder's managerial, financial and technological autonomy allows optimal control over all its business processes, the results of which include simplified customs procedures and a high reliability of commercial relations.

This focus is demonstrated by the company's commitment to the following internationally recognized projects and certifications:



ISO 9001:2015 Quality management system



ISO 14001:2015 Environmental management



ISO 45001:2018 Health and safety management



ISO 14064-1 2018
Carbon
Footprint



ISO 50001:2018
Energy
management



FSC AEOF
Forest Simplified customs
Stewardship and enhanced supply

chain security



Cribis Prime Company
s Recognition of highest
oly reliability of commercial
relations



Industrial Thermoregulation products and accessories for electrical panels

7T Series Thermo-hygrostats and Thermostats Ensuring the performance of components and instrumentation within control panels and enclosures - often enhancing product life	
7F Series Filter Fans Filter fan range to ventilate and safeguard against high enclosure temperatures.	Page 6
7H Series Heaters Preventing the formation of condensation and ensuring the optimum temperature within electrical enclosures. Heating power from 25 W to 400 W.	Page 10
7L Series LED panel lights Available in two brightness levels, 600 lumens or 1200 lumens, these 7L Series LED panel lights featuring magnetic mounting are the ideal solution for perfect lighting for machines and electrical parts.	
7U Series Modular power outlets For a secure and approved power outlet for use within electrical enclosures. Two versions available.	Page 14
9D Series High Current Terminal Blocks For the combining and distribution of high current power cables within electrical panels and cabinets.	Page 15



3

7T Series

Thermo-Hygrostats



Type 7T.51.0.230.4360

- · Electronic control
- Small, compact size (17.5 mm wide)
- 1 NO 10 A 250 V AC1
- 4 functions
- Nominal voltage 110...240 V AC/DC
- Temperature ranges from +10° to +60°C
- Humidity range up to 90%
- · LED status indication contact ON



Drying kilns



refrigeration



Road / tunnel



Industrial furnaces



Automatic car-washes



Panels for electrical



Control panels



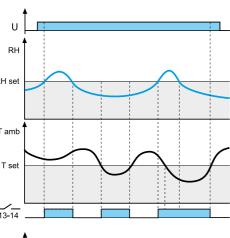
Forced-air

HT: RH > RHset OR Tamb > Tset

Power is permanentely applied to the thermo-hygrostat. The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset) OR if the ambient temperature (Tamb)

When contact is closed, LED is ON

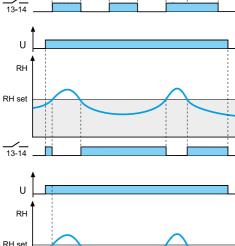
is > of set temperature (Tset).



TH: RH > RHset OR Tamb < Tset

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset) OR if the ambient temperature (Tamb) is < of set temperature (Tset).

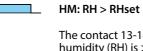
When contact is closed, LED is ON



HL: RH < RHset

The contact 13-14 closes if the ambient humidity (RH) is < of set humidity (RHset).

When contact is closed, LED is ON



The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset).

When contact is closed, LED is ON

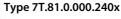
Thermostats

- Small, compact size (17.5 mm wide)
- 1 NO 1 NC 10 A 250 V AC1
- · Snap action thermostatic Bimetal sensor
- · Wide temperature setting range
- Long electrical life





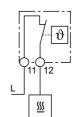








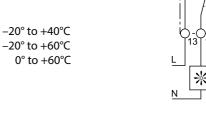




Heating control

Should the panel temperature fall below the (minimum) set temperature the contact will close to call for heat. The contact will open when this set temperature is exceeded.

Heating: Red Dial Temperature ranges: -20° to +40°C



Type 7T.81.0.000.230x

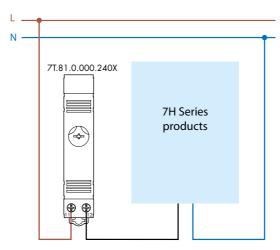


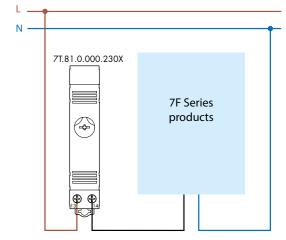




exceed the (maximum) set temperature then the contact will close to call for cooling. The contact will open when the temperature falls below this set temperature.

Ventilation: Blue Dial Temperature ranges: -20° to +40°C -20° to +60°C 0° to +60°C









7F Series

Filter Fans

- Operating voltage: 120 V AC, 230 V AC or 24 V DC (according to type)
- · Easily replaceable filter mat
- · Minimal depth within enclosure
- Air volume (24...700)m³/h
- · Time-saving installation and maintenance
- Very low acoustic noise
- Protection category: IP54
- UL Type 12 (Type 7F.20)
- UL Type 3R (Type 7F.30)
- Reverse air flow versions available (7F.21 and 7F.31)
- Black colour RAL 9004 available (7F.20)
- Dimensions from 120 mm up to 320 mm











Drying kilns



Textile machines



Machines for paper processing



Machines for



processing



Panels for electrical distribution



Control



Forced-air

Design by MINELLI | FOSSATI



Exhaust Filters

- The size of the Exhaust Filter should match the size of the Filter Fan to achieve the best ventilation within the cabinet
- · Minimal depth within enclosure
- Time-saving installation and maintenance
- · Easily replaceable filter mat
- Protection category IP54
- UL Type 12 (Type 7F.02)
- UL Type 3R (Type 7F.03)
- Black colour RAL 9004 available (7F.02)

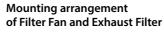


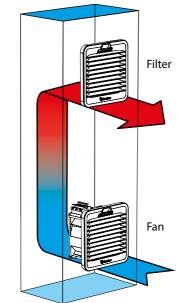








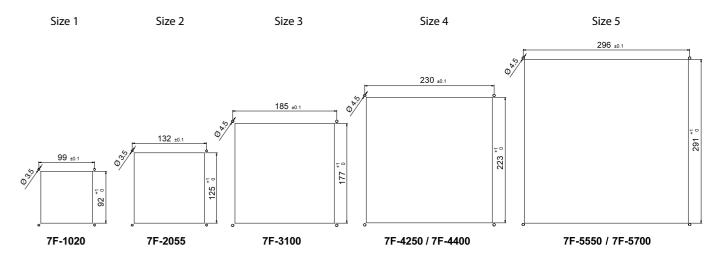




Filter Fans and Exhaust Filters

Standard Filter Fan	Operating voltage (V AC)	Operating voltage (V DC)	Air volume (CFM)	Rated power (W) 50/60 Hz	Size	Standard Exhaust Filter	Reverse flow versions	Filter mat
7F.x0.8.120.1020	120 V AC	_	17	27/21	1 (120 x 120 mm)	7F.0x.0.000.1000	7F.x1.8.120.1020	07F.15
7F.x0.8.230.1020	230 V AC	_	17	23/18	1 (120 x 120 mm)	7F.0x.0.000.1000	7F.x1.8.230.1020	07F.15
7F.x0.9.024.1020	_	24 V DC	14	3.6	1 (120 x 120 mm)	7F.0x.0.000.1000	7F.x1.9.024.1020	07F.15
7F.x0.8.120.2055	120 V AC	_	37	30/25	2 (155 x 155 mm)	7F.0x.0.000.2000	7F.x1.8.120.2055	07F.25
7F.x0.8.230.2055	230 V AC	_	37	29/25	2 (155 x 155 mm)	7F.0x.0.000.2000	7F.x1.8.230.2055	07F.25
7F.x0.9.024.2055	_	24 V DC	32	7	2 (155 x 155 mm)	7F.0x.0.000.2000	7F.x1.9.024.2055	07F.25
7F.x0.8.120.3100	120 V AC	_	68	30/25	3 (209 x 209 mm)	7F.0x.0.000.3000	7F.x1.8.120.3100	07F.35
7F.x0.8.230.3100	230 V AC	_	68	29/25	3 (209 x 209 mm)	7F.0x.0.000.3000	7F.x1.8.230.3100	07F.35
7F.x0.9.024.3100	_	24 V DC	59	7	3 (209 x 209 mm)	7F.0x.0.000.3000	7F.x1.9.024.3100	07F.35
7F.x0.8.120.4250	120 V AC	_	174	42/48	4 (255 x 255 mm)	7F.0x.0.000.4000	7F.x1.8.120.4250	07F.45
7F.x0.8.230.4250	230 V AC	_	174	46/50	4 (255 x 255 mm)	7F.0x.0.000.4000	7F.x1.8.230.4250	07F.45
7F.x0.9.024.4250	_	24 V DC	147	43	4 (255 x 255 mm)	7F.0x.0.000.4000	7F.x1.9.024.4250	07F.45
7F.x0.8.120.4400	120 V AC	_	262	72/120	4 (255 x 255 mm)	7F.0x.0.000.4000	7F.x1.8.120.4400	07F.46
7F.x0.8.230.4400	230 V AC	_	262	69/112	4 (255 x 255 mm)	7F.0x.0.000.4000	7F.x1.8.230.4400	07F.46
7F.x0.8.120.5550	120 V AC	_	356	75/102	5 (320 x 320 mm)	7F.0x.0.000.5000	7F.x1.8.120.5550	07F.56
7F.x0.8.230.5550	230 V AC	_	356	76/116	5 (320 x 320 mm)	7F.0x.0.000.5000	7F.x1.8.230.5550	07F.56
7F.x0.8.120.5700	120 V AC	_	412	110/140	5 (320 x 320 mm)	7F.0x.0.000.5000	7F.x0.8.120.5700	07F.55
7F.x0.8.230.5700	230 V AC	_	412	106/120	5 (320 x 320 mm)	7F.0x.0.000.5000	7F.x0.8.230.5700	07F.55

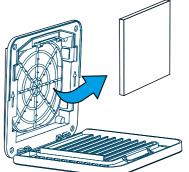
Drilling template

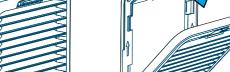


Replacement of Filter mat











7F Series

Drying kilns

machines

for paper processing

Machines for

processing

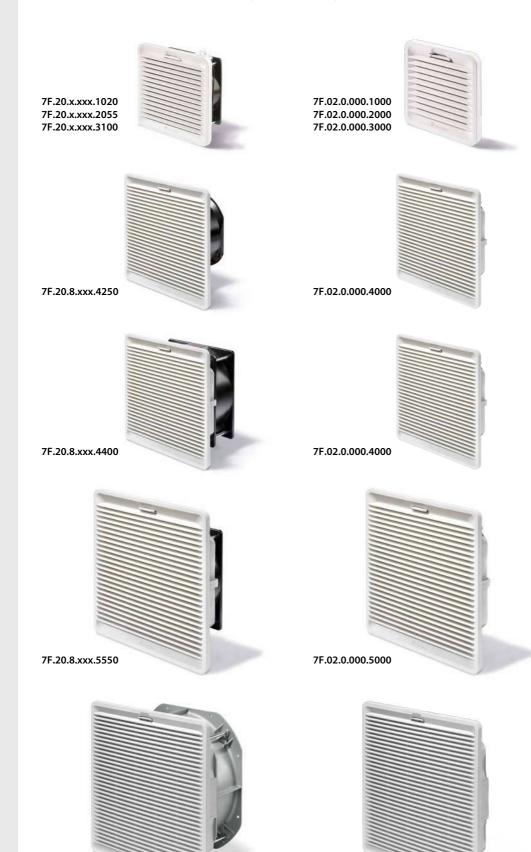
Panels for electrical distribution

Control

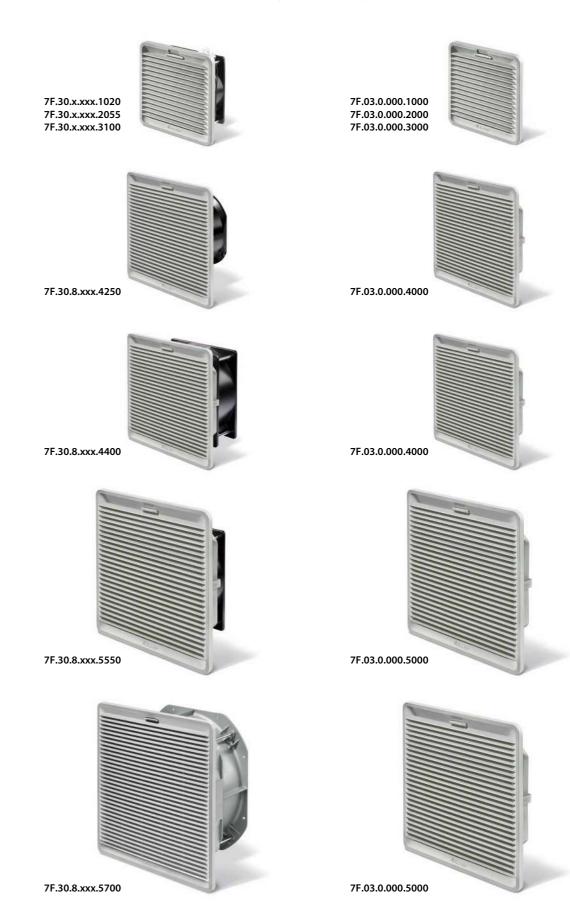
Forced-air ventilators

Filter Fans and Exhaust Filters for indoor use (7F.20)

Filter Fans and Exhaust Filters for outdoor use (7F.30)



7F.02.0.000.5000



Design by MINELLI | FOSSATI





7F.20.8.xxx.5700

7H Series

Heaters fan assisted

- Nominal voltage 120 or 230 V AC
- PTC resistor, self regulating heating system
- Fan assisted heaters
- Fast wiring terminals
- Safe touch
- Clip for 35 mm rail (EN 60715) mount



Orying kiln



Hoists and



Road / tunnel



Plastic moulding machines



Automatic car-washes



Panels for electrical distribution



Control panels



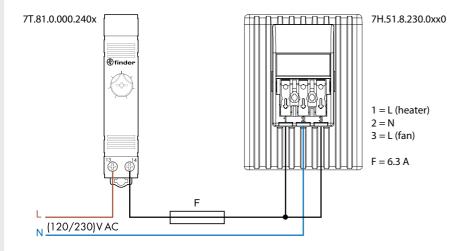
Forced-air ventilators



Type 7H.51.8.230.0250 Heater power 250 W Fan assisted Dimensions (w x h x d): 88.2 x 28.7 x 67 mm



Type 7H.51.8.230.0400 Heater power 400 W Fan assisted Dimensions (w x h x d): 88.2 x 28.7 x 67 mm



NOT

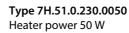
Separate supply (L) terminals for the heater and the internal fan allow them to be powered independently. So, dependent on the specific situation, the installer might wish the heating element to be controlled by an upstream thermostat but require the fan to run continuously (although the latter will significantly reduce the product's life).

Heaters

- Nominal voltage (110...230)V AC/DC
- PTC self regulating heating system
- Screw terminals
- Safe touch
- Clip for 35 mm rail (EN 60715) mount



Type 7H.51.0.230.0025 Heater power 25 W



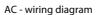
Dimensions (w x h x d): 41 x 125 x 41 mm

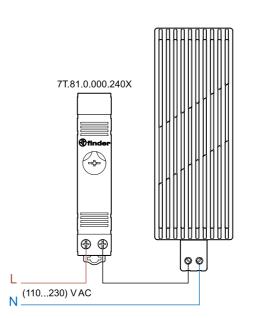


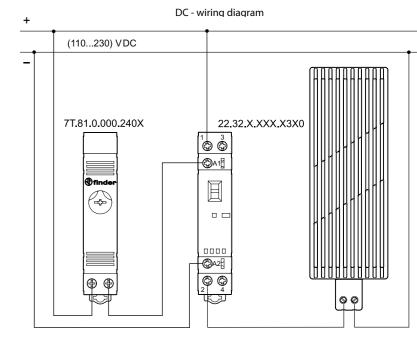
Type 7H.51.0.230.0100 Heater power 100 W Dimensions (w x h x d): 70 x 140 x 63 mm



Type 7H.51.0.230.0150Heater power 150 W
Dimensions (w x h x d): 70 x 220 x 63 mm











7L Series

LED panel lights

Type 7L.43.0.xxx.xx00 - Brightness level: 600 lumens

Type 7L.46.0.xxx.xx00 - Brightness level: 1200 lumens

- Direct magnetic mounting or through a screw-fixed metallic support
- Power supply Multi-voltage: 12...48 V AC/DC and 110...240 V AC/DC
- Low energy consumption
- Nominal power consumption: 6 W (600 lm), 9 W (1200 lm)
- Push-in terminals for the connection to a single unit
- Plug-in terminals for the connection to a single or multiple units (up to 7 lamps)









electrical



Control





Radiation angle: 120°



Push-in terminals for the connection to a single unit



Colour temperature: 5000 K



Plug-in terminals for the connection to a single or multiple units (up to 7 lamps)



Multi-voltage



Protection category: IP20

finder

Design by MINELLI | FOSSATI

LED panel lights

Code Lamps	Lumen	Code Lamps	Lumen	Supply voltage	Switching	Connections
7L.43.0.024.0100	600	7L.46.0.024.0100	1200	024 = (1248)V AC/DC	Direct switching	Push-in terminals
7L.43.0.024.0200	600	7L.46.0.024.0200	1200	024 = (1248)V AC/DC	Direct switching	Plug-in terminals
7L.43.0.230.0100	600	7L.46.0.230.0100	1200	230 = (110240)V AC/DC	Direct switching	Push-in terminals
7L.43.0.230.0200	600	7L.46.0.230.0200	1200	230 = (110240)V AC/DC	Direct switching	Plug-in terminals
7L.43.0.024.1100	600	7L.46.0.024.1100	1200	024 = (1248)V AC/DC	Via ON/OFF switch	Push-in terminals
7L.43.0.024.1200	600	7L.46.0.024.1200	1200	024 = (1248)V AC/DC	Via ON/OFF switch	Plug-in terminals
7L.43.0.024.2100	600	7L.46.0.024.2100	1200	024 = (1248)V AC/DC	Via movement detector	Push-in terminals
7L.43.0.024.2200	600	7L.46.0.024.2200	1200	024 = (1248)V AC/DC	Via movement detector	Plug-in terminals
7L.43.0.230.1100	600	7L.46.0.230.1100	1200	230 = (110240)V AC/DC	Via ON/OFF switch	Push-in terminals
7L.43.0.230.1200	600	7L.46.0.230.1200	1200	230 = (110240)V AC/DC	Via ON/OFF switch	Plug-in terminals
7L.43.0.230.2100	600	7L.46.0.230.2100	1200	230 = (110240)V AC/DC	Via movement detector	Push-in terminals
7L.43.0.230.2200	600	7L.46.0.230.2200	1200	230 = (110240)V AC/DC	Via movement detector	Plug-in terminals

(1)

Direct switching



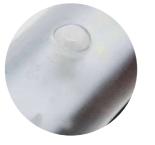
Magnetic fixing direct to metallic panel





Type 07L.11 Socket for connection to a 2-core cable (2 x 1.5 mm²), e.g. H05VV-F, 2 x 1.5 mm² Loose item - for the input side (included in the package)





Magnetic fixing via









Switching via ON/OFF

soft latch switch



Type 07L.12 Plugs for connection to a 2-core cable (2 x 1.5 mm²), e.g. H05VV-F, 2 x 1.5 mm² Loose item - for the output side (not included)



7U Series

Modular power outlets

- Nominal voltage: 230 V AC
- · Nominal current: up to 16 A
- · Compatible with Schuko and Italian Bipasso
- Availbale in grey and yellow color
- · Voltage indication LED version available
- 45 mm wide
- Panel or rail 35 mm (EN 60715) mounting

Approvals: (E UK ()





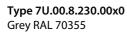


Panels for electrical



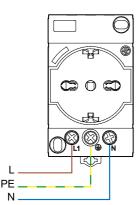
Control







Type 7U.00.8.230.00x2 Yellow RAL 1021





Screw terminals

Electric shock hazard

Safety notes

Any equipment within an electrical system that remains live after turning off at the main switch, must be marked in compliance with standards DIN VDE 0105-1 and IEC 204-1 / EN 60204-1 / DIN VDE 0113 Part 1, as well as the VBG 4 accident prevention regulations.

For these applications use the yellow power outlet.



9D Series

3 configurations available in a single product:

- Single, pole splitter: Split of main power input into 4, 6, 10 or 11 outputs
- Multiple, pole splitters: Splitting with increased number of outputs
- Grouping: Combining several inputs to make a single output (eg. solar applications)

High Current Terminal Blocks

- Nominal current: 80, 125, 160, 250 or 400 A
- Available with 7, 8 or 12 connections (according to type)
- Daisy chain blocks for further expansion of output terminals
- Cable connection capacity up to 185 mm² cross section
- Screw terminals
- 35 mm rail (EN 60715) mount







9D.01.5.250.0111



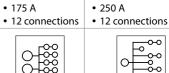
Panels for electrical distribution

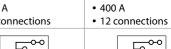


Control

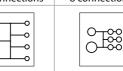








9D.01.5.400.0111









		0								3		
NPUT WIRE SPECIFICATION Solid/Stranded)												
Number of input		3	1		2	1		1				
Terminal diameter	Ømm	6.6	9.8		11.8	15.3			15.3			
Min. wire size	mm²	2.5	10		10	35			95			
	AWG	14	4		6		2			3/0		
Max. wire size	mm²	16	35		70	120			185			
	AWG	6	2		2/0	250 Kcmil			400 Kcmil			
Wire input stripping length mm		15	15		15	28			28			
Tool		Posidriv - flat screwdriver	Allen Key		Allen Key	Allen Key			Allen Key			
Tool dimension	mm	5.5/PZ2	4		5	6			8			
Torque	Nm	1.52	3.55		610	1921			25			
OUTPUT WIRE SPECIFICATION (Solid/Stranded)												
Number of output		4	1	6	10	2	5	4	2	5	4	
Terminal diameter	Ømm	4.5	6.8	6.4	6.4	8.7	6.4	5.7	8.7	6.4	5.7	
Min. wire size	mm²	2.5	6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	AWG	14	10	14	14	14	14	14	14	14	14	
Max. wire size	mm²	6	16	16	16	35	16	10	35	16	10	
	AWG	10	6	6	6	2	6	8	2	6	8	
Wire input stripping length mm		11	1	1	11	11		11				
Tool		Posidriv - flat screwdriver	Allen Key	Posidriv-flat screwdriver	Posidriv - flat screwdriver	Allen Key Allen		Allen Key	<i>y</i>			

5.5 PZ2

2...3

3

2...3

5.5/PZ2



3

3

3.5...5 2...3 2...3 3.5...5 2...3 2...3

4

Tool dimension

Torque

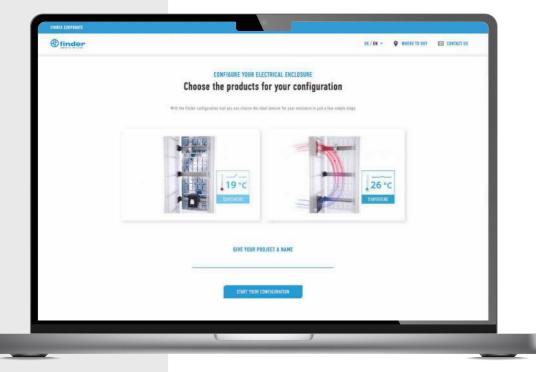
mm

Nm

4/PZ1

0.8...12

Industrial configurator







https://configuratore.findernet.com/en/

Configure your electrical enclosure Choose the products for your configuration

For the optimal performance of an electrical panel it is necessary, at the design stage, to consider all those components that will influence the need to heat or cool the enclosure. Maintaining an ideal temperature and good air quality is important for the safety and optimal performance of the installed devices and the overall reliability of the system.

Finder have been supporting industry professionals for over 65 years in the installation of electronic and electromechanical devices, having developed a wide range of thermostats, thermo-hygrostats, fans and panel heaters - devices you can rely on to ensure the optimal climate is maintained within the electrical switchboard and with the confidence that comes with their numerous national and international approvals and certification.

Using the new Finder configurator for industrial thermoregulation greatly simplifies the calculation process, providing data and characteristics of the required products in a intuitive, downloadable and shareable report.

Once the configuration is complete, it is possible to request a quote as well as draw on the expertise of Finder technicians in the application and incorporation of other devices, such as timers, modular contactors, industrial relays and much more.





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